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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/031,746	01/24/2002	Atsushi Miyazawa	111735	8612

7590
01/27/2005
Oliff & Berridge
PO Box 19928
Alexandria, VA 22320

EXAMINER

LE, VU

ART UNIT	PAPER NUMBER
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2613

DATE MAILED: 01/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/031,746

Applicant(s)

MIYAZAWA ET AL.

Examiner

Vu Le

Art Unit

2613

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/02</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent; or
(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for the purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English.

2. Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Jones et al, US 6,573,928.

Re claim 1, Jones et al discloses a stereoscopic image generating apparatus (fig. 20, col. 3, line 6 – col. 4, line 7, col. 4, lines 31-37, col. 14, lines 1-19) comprising:

an input image storage memory comprising storage areas corresponding to n viewing images inputted from an outside for every frame, respectively ("Memory Management System", col. 4, lines 31-37);

and an interleaver for interleaving the viewing images in parallel by reading out image data to be sampled of the viewing images from predetermined storage addresses of the input image storage memory, and generating a stereoscopic image to be displayed on a n-eye type of stereoscopic image display apparatus ("Video Controller", col. 14, lines 7-19).

Re claim 2, Jones et al discloses a stereoscopic image generating apparatus (fig. 20, col. 3, line 6 – col. 4, line 7, col. 4, lines 31-37, col. 14, lines 1-19) comprising:

a frame buffer for storing a frame of stereoscopic images therein ("Memory Management System", col. 14, lines 1-19);

and an interleaver, when n viewing images are inputted from an outside for every frame in serial order, for interleaving stereoscopic images stored in the frame buffer with viewing images inputted, restoring the stereoscopic images, and generating a stereoscopic image to be displayed on a n-eye type of stereoscopic image display apparatus ("Video Controller", col. 4, lines 31-37, col. 14, lines 7-19).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones et al as applied to claims 1-2 respectively and further in view of Yusuke et al, JP 11027607A (Machine Translation).

Re claim 3, Jones et al discloses the stereoscopic image generating apparatus as claimed in claim 1, but fails to disclose further:

a game image generating section for generating game images corresponding to n viewpoints for every frame; and a game operating section for operating a stereoscopic dynamic image game by making the stereoscopic image generating apparatus generate

a stereoscopic image on the basis of the game images, and by making the stereoscopic image display apparatus display the stereoscopic image thereon.

Yusuke et al teaches a stereoscopic image generating apparatus that incorporates a game image generating section for generating game images corresponding to n viewpoints for every frame (drawings 6 & 7, para 0069-0070);

and a game operating section for operating a stereoscopic dynamic image game by making the stereoscopic image generating apparatus generate a stereoscopic image on the basis of the game images, and by making the stereoscopic image display apparatus display the stereoscopic image thereon (drawings 6 & 7, para 0071-0079).

Therefore, taking the combined teaching of Jones et al and Yusuke et al as a whole, it would have been obvious to modify Jones et al to further include a game image generating section and a game operating section for operating a stereoscopic dynamic image game as taught by Yusuke et al for the benefit of providing a gaming stereoscopic display environment that can accommodate multiple users each having separate visual presence at different direction on a single display screen (See Yusuke et al "Description of the Prior Art").

Re claim 4, Jones et al discloses the stereoscopic image generating apparatus as claimed in claim 2, but fails to disclose further: a game image generating section for generating game images corresponding to n viewpoints for every frame; and a game operating section for operating a stereoscopic dynamic image game by making the stereoscopic image generating apparatus generate a stereoscopic image on the basis

of the game images, and by making the stereoscopic image display apparatus display the stereoscopic image thereon.

Yusuke et al teaches a stereoscopic image generating apparatus that incorporates a game image generating section for generating game images corresponding to n viewpoints for every frame (drawings 6 & 7, para 0069-0070);

and a game operating section for operating a stereoscopic dynamic image game by making the stereoscopic image generating apparatus generate a stereoscopic image on the basis of the game images, and by making the stereoscopic image display apparatus display the stereoscopic image thereon (drawings 6 & 7, para 0071-0079).

Therefore, taking the combined teaching of Jones et al and Yusuke et al as a whole, it would have been obvious to modify Jones et al to further include a game image generating section and a game operating section for operating a stereoscopic dynamic image game as taught by Yusuke et al for the benefit of providing a gaming stereoscopic display environment that can accommodate multiple users each having separate visual presence at different direction on a single display screen (See Yusuke et al "Description of the Prior Art").

Contact

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vu Le whose telephone number is 703-308-6613. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on 703-305-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Vu Le', is written over the printed name.

Vu Le
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